

# ***Emergency Medical Technician-I Course Objectives***

Developed by:

State EMS Training Committee  
a subcommittee of the  
Alaska Council on  
Emergency Medical Services

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# Contents

Introduction to Emergency Care .....	4
Well-Being of the EMT-I.....	5
Medical/Legal and Ethical Issues .....	7
The Human Body.....	9
Baseline Vital Signs and SAMPLE History .....	10
Lifting and Moving Patients .....	12
Evaluation: Module 1 .....	14
Airway.....	15
Practical Lab: Airway .....	18
Evaluation: Airway.....	19
Scene Size-up .....	20
Initial Assessment .....	21
History and Physical Exam: Trauma .....	23
Focused History and Physical Exam: Medical .....	24
Detailed Physical Exam .....	25
On-Going Assessment .....	26
Communications .....	27
Documentation.....	29
Practical Lab: Patient Assessment .....	30
Evaluation: Patient Assessment .....	31
General Pharmacology.....	32
Respiratory Emergencies .....	33
Cardiac Emergencies.....	34
Diabetic Emergencies/Altered Mental Status .....	37
Allergies.....	38
Poisoning/Overdose .....	39
Environmental Emergencies .....	41
Behavioral Emergencies .....	42
Obstetrics/ Gynecology.....	44
Practical Lab: Medical/Behavioral and Obstetrics/Gynecology.....	46
Evaluation: Medical/Behavioral and Obstetrics/Gynecology.....	47
Bleeding and Shock .....	48
Soft Tissue Injuries .....	50
Musculoskeletal Care .....	52
Injuries to the Head and Spine .....	53
Practical Lab: Trauma .....	55
Evaluation: Trauma.....	56
Infants and Children.....	57
Practical Lab: Infants and Children .....	59
Evaluation: Infants and Children .....	60
Ambulance Operations .....	61
Gaining Access .....	63
Overviews .....	64
Evaluation: Operations .....	65
Advanced Airway (elective) .....	66
Practical Lab: Advanced Airway (elective).....	68
Evaluation: Advanced Airway (elective).....	69

# MODULE 1

## Preparatory

### Lesson 1-1

#### Introduction to Emergency Care

##### **COGNITIVE OBJECTIVES**

Upon completion of this lesson, the EMT-I student will be able to:

- 1-1.1 Define Emergency Medical Services (EMS) systems. (C-1)
- 1-1.2 Differentiate the roles and responsibilities of the EMT-I from other prehospital care providers. (C-3)
- 1-1.3 Describe the roles and responsibilities related to personal safety. (C-1)
- 1-1.4 Discuss the roles and responsibilities of the EMT-I towards the safety of the crew, the patient and bystanders. (C-1)
- 1-1.5 Define quality improvement and discuss the EMT-I's role in the process. (C-1)
- 1-1.6 Define medical direction and discuss the EMT-I's role in the process. (C-1)
- 1-1.7 State the specific statutes and regulations regarding the EMS system. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-1.8 Assess areas of personal attitude and conduct of the EMT-I. (A-3)
- 1-1.9 Characterize the various methods used to access the EMS system in your community. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

No psychomotor objectives identified.

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-1.10 *Discuss the importance of physician medical direction to an EMS System. (C-1)*
- 1-1.11 *Define "delegation of authority." (C-1)*

Recommended time: 1.5 hours

# MODULE 1

## Preparatory

### Lesson 1-2

#### Well-Being of the EMT-I

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-2.1 List possible emotional reactions that the EMT-I may experience when faced with trauma, illness, death and dying. (C-1)
- 1-2.2 Discuss the possible reactions that a family member may exhibit when confronted with death and dying. (C-1)
- 1-2.3 State the steps in the EMT-I's approach to the family confronted with death and dying. (C-1)
- 1-2.4 State the possible reactions that the family of the EMT-I may exhibit due to their outside involvement in EMS. (C-1)
- 1-2.5 Recognize the signs and symptoms of critical incident stress. (C-1)
- 1-2.6 State possible steps that the EMT-I may take to help reduce/alleviate stress. (C-1)
- 1-2.7 Explain the need to determine scene safety. (C-2)
- 1-2.8 Discuss the importance of body substance isolation (BSI). (C-1)
- 1-2.9 Describe the steps the EMT-I should take for personal protection from airborne and bloodborne pathogens. (C-1)
- 1-2.10 List the personal protective equipment necessary for each of the following situations: (C-1)
  - a. hazardous materials;
  - b. rescue operations;
  - c. violent scenes;
  - d. crime scenes;
  - e. exposure to bloodborne pathogens; and
  - f. exposure to airborne pathogens.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-2.11 Explain the rationale for serving as an advocate for the use of appropriate protective equipment. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-2.12 Given a scenario with potential infectious exposure, the EMT-I will use appropriate personal protective equipment. At the completion of the scenario, the EMT-I will properly remove and discard the protective garments. (P-1, 2)
- 1-2.13 Given the above scenario, the EMT-I will complete disinfection/cleaning and all reporting documentation. (P-1, 2)

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-2.14 *Describe the minimum requirements for hazardous materials training for EMS personnel as outlined in 29 CFR 1910.120. (C-1)*
- 1-2.15 *Describe the requirements for confined space training for EMS personnel as outlined in 29 CFR 1910.146. (C-1)*
- 1-2.16 *Describe the effects of the Ryan White Act on EMS personnel. (C-1)*
- 1-2.17 *Describe the requirements for EMS personnel outlined in the Alaska Bloodborne Pathogen regulations. (C-1)*
- 1-2.18 *Describe the requirements for EMS personnel outlined in the Centers for Disease Control's tuberculosis guidelines. (C-1)*
- 1-2.19 *Describe the training and scope of certified activities for Emergency Trauma Technicians, Emergency Medical Technicians-I, II and III, Manual Defibrillator Technicians, and Mobile Intensive Care Paramedics. (C-1)*

Recommended time: 2 hours

# **MODULE 1**

## **Preparatory**

### **Lesson 1-3**

#### **Medical/Legal and Ethical Issues**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-3.1 Define the EMT-I scope of practice. (C-1)
- 1-3.2 Discuss the importance of Do Not Resuscitate [DNR] (advance directives) and local or state provisions regarding EMS application. (C-1)
- 1-3.3 Define consent and discuss the methods of obtaining consent. (C-1)
- 1-3.4 Differentiate between expressed and implied consent. (C-3)
- 1-3.5 Explain the role of consent of minors in providing care. (C-1)
- 1-3.6 Discuss the implications for the EMT-I in patient refusal of transport. (C-1)
- 1-3.7 Discuss the issues of abandonment, negligence and battery, and their implications to the EMT-I. (C-1)
- 1-3.8 State the conditions necessary for the EMT-I to have a duty to act. (C-1)
- 1-3.9 Explain the importance, necessity and legality of patient confidentiality. (C-1)
- 1-3.10 Discuss the considerations of the EMT-I in issues of organ retrieval. (C-1)
- 1-3.11 Differentiate the actions that an EMT-I should take to assist in the preservation of a crime scene. (C-3)
- 1-3.12 State the conditions that require an EMT-I to notify local law enforcement officials. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-3.13 Explain the role of EMS and the EMT-I regarding patients with DNR orders. (A-3)
- 1-3.14 Explain the rationale for the needs, benefits and usage of advance directives. (A-3)
- 1-3.15 Explain the rationale for the concept of varying degrees of DNR. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

No psychomotor objectives identified.

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-3.16 *List the injuries and suspicions which must be reported in Alaska, the time frames and format for reporting, and to whom the reports must be made. (C-1)*
- 1-3.17 *State the responsibilities of an EMT to determine whether a patient who has died is an organ donor. (C-1)*
- 1-3.18 *Describe the “Alaska Comfort One” DNR system in Alaska, including the valid forms of identification and the rescuer’s response to a patient with a valid do-not resuscitate order. (C-1)*
- 1-3.19 *List the prerequisites and procedures for pronouncing death in the field. (C-1)*
- 1-3.20 *Identify the roles and responsibilities of an emergency medical technician authorized under 7 AAC 26.040 and AS 18.08.075. (C-1)*
- 1-3.21 *List the suspicions of abuse and neglect of children, elders, and disabled adults which must be reported, to whom the reports are made, the process for making the report, and the alternatives if immediate assistance is required to prevent injuries or further harm. (C-2)*

Recommended time: 2 hours

# **MODULE 1**

## **Preparatory**

### **Lesson 1-4**

#### **The Human Body**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-4.1 Identify the following topographic terms: medial, lateral, proximal, distal, superior, inferior, anterior, posterior, midline, right and left, mid-clavicular, bilateral, mid-axillary. (C-1)
- 1-4.2 Describe the anatomy and function of the following major body systems: respiratory, circulatory, musculoskeletal, nervous and endocrine. (C-1)

##### **AFFECTIVE OBJECTIVES**

No affective objectives identified.

##### **PSYCHOMOTOR OBJECTIVES**

No psychomotor objectives identified.

##### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 2.5 hours

# MODULE 1

## Preparatory

### Lesson 1-5

#### Baseline Vital Signs and SAMPLE History

##### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 1-5.1 Identify the components of vital signs. (C-1)
- 1-5.2 Describe the methods to obtain a breathing rate. (C-1)
- 1-5.3 Identify the attributes that should be obtained when assessing breathing. (C-1)
- 1-5.4 Differentiate between shallow, labored and noisy breathing. (C-3)
- 1-5.5 Describe the methods to obtain a pulse rate. (C-1)
- 1-5.6 Identify the information obtained when assessing a patient's pulse. (C-1)
- 1-5.7 Differentiate between a strong, weak, regular and irregular pulse. (C-3)
- 1-5.8 Describe the methods to assess the skin color, temperature, condition (capillary refill in infants and children). (C-1)
- 1-5.9 Identify the normal and abnormal skin colors. (C-1)
- 1-5.10 Differentiate between pale, blue, red and yellow skin color. (C-3)
- 1-5.11 Identify the normal and abnormal skin temperature. (C-1)
- 1-5.12 Differentiate between hot, cool and cold skin temperature. (C-3)
- 1-5.13 Identify normal and abnormal skin conditions. (C-1)
- 1-5.14 Identify normal and abnormal capillary refill in infants and children. (C-1)
- 1-5.15 Describe the methods to assess the pupils. (C-1)
- 1-5.16 Identify normal and abnormal pupil size. (C-1)
- 1-5.17 Differentiate between dilated (big) and constricted (small) pupil size. (C-3)
- 1-5.18 Differentiate between reactive and non-reactive pupils and equal and unequal pupils. (C-3)
- 1-5.19 Describe the methods to assess blood pressure. (C-1)
- 1-5.20 Define systolic pressure. (C-1)
- 1-5.21 Define diastolic pressure. (C-1)
- 1-5.22 Explain the difference between auscultation and palpation for obtaining a blood pressure. (C-1)
- 1-5.23 Identify the components of the SAMPLE history. (C-1)
- 1-5.24 Differentiate between a sign and a symptom. (C-3)
- 1-5.25 State the importance of accurately reporting and recording the baseline vital signs. (C-1)
- 1-5.26 Discuss the need to search for additional medical identification. (C-1)

##### AFFECTIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 1-5.27 Explain the value of performing the baseline vital signs. (A-2)
- 1-5.28 Recognize and respond to the feelings patients experience during assessment. (A-1)
- 1-5.29 Defend the need for obtaining and recording an accurate set of vital signs. (A-3)
- 1-5.30 Explain the rationale of recording additional sets of vital signs. (A-1)
- 1-5.31 Explain the importance of obtaining a SAMPLE history. (A-1)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-5.32 Demonstrate the skills involved in assessment of breathing. (P-1, 2)
- 1-5.33 Demonstrate the skills associated with obtaining a pulse. (P-1, 2)
- 1-5.34 Demonstrate the skills associated with assessing the skin color, temperature, condition, and capillary refill in infants and children. (P-1, 2)
- 1-5.35 Demonstrate the skills associated with assessing the pupils. (P-1, 2)
- 1-5.36 Demonstrate the skills associated with obtaining blood pressure. (P-1, 2)
- 1-5.37 Demonstrate the skills that should be used to obtain information from the patient, family, or bystanders at the scene. (P-1, 2)

### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 2 hours

# MODULE 1

## Preparatory

### Lesson 1-6

#### Lifting and Moving Patients

##### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 1-6.1 Define body mechanics. (C-1)
- 1-6.2 Discuss the guidelines and safety precautions that need to be followed when lifting a patient. (C-1)
- 1-6.3 Describe the safe lifting of cots and stretchers. (C-1)
- 1-6.4 Describe the guidelines and safety precautions for carrying patients and/or equipment. (C-1)
- 1-6.5 Discuss one-handed carrying techniques. (C-1)
- 1-6.6 Describe correct and safe carrying procedures on stairs. (C-1)
- 1-6.7 State the guidelines for reaching and their application. (C-1)
- 1-6.8 Describe correct reaching for log rolls. (C-1)
- 1-6.9 State the guidelines for pushing and pulling. (C-1)
- 1-6.10 Discuss the general considerations of moving patients. (C-1)
- 1-6.11 State three situations that may require the use of an emergency move. (C-1)
- 1-6.12 Identify the following patient carrying devices: (C-1)
  - a. wheeled ambulance stretcher;
  - b. portable ambulance stretcher;
  - c. stair chair;
  - d. scoop stretcher;
  - e. long spine board;
  - f. basket stretcher; and
  - g. flexible stretcher.

##### AFFECTIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 1-6.13 Explain the rationale for properly lifting and moving patients. (A-3)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-6.14 Working with a partner, prepare each of the following devices for use, transfer a patient to the device, properly position the patient on the device, move the device to the ambulance and load the patient into the ambulance: (P-1, 2)
- a. wheeled ambulance stretcher;
  - b. portable ambulance stretcher;
  - c. stair chair;
  - d. scoop stretcher;
  - e. long spine board;
  - f. basket stretcher; and
  - g. flexible stretcher.
- 1-6.15 Working with a partner, the EMT-I will demonstrate techniques for the transfer of a patient from an ambulance stretcher to a hospital stretcher. (P-1, 2)

### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 3 hours

# **MODULE 1**

## **Preparatory**

### **Lesson 1-7**

#### **Evaluation: Module 1**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-7.1        Demonstrate knowledge of the cognitive objectives in Module 1

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-7.2        Demonstrate knowledge of the affective objectives in Module 1

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-7.3        Demonstrate knowledge of the psychomotor objectives in Module 1

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 1-7.4        Demonstrate knowledge of the Alaska specific objectives in Module 1

Recommended time: 1 hour

## **MODULE 2**

### **Airway**

#### **Lesson 2-1**

### **Airway**

#### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 2-1.1 Name and label the major structures of the respiratory system on a diagram. (C-1)
- 2-1.2 List the signs of adequate breathing. (C-1)
- 2-1.3 List the signs of inadequate breathing. (C-1)
- 2-1.4 Describe the steps in performing the head-tilt chin-lift. (C-1)
- 2-1.5 Relate the mechanism of injury to opening the airway. (C-3)
- 2-1.6 Describe the steps in performing the jaw thrust. (C-1)
- 2-1.7 State the importance of having a suction unit ready for immediate use when providing emergency care. (C-1)
- 2-1.8 Describe the techniques of suctioning. (C-1)
- 2-1.9 Describe how to artificially ventilate a patient with a pocket mask. (C-1)
- 2-1.10 Describe the steps in performing the skill of artificially ventilating a patient with a bag-valve-mask while using the jaw thrust. (C-1)
- 2-1.11 List the parts of a bag-valve-mask system. (C-1)
- 2-1.12 Describe the steps in performing the skill of artificially ventilating a patient with a bag-valve-mask for one and two rescuers. (C-1)
- 2-1.13 Describe the signs of adequate artificial ventilation using the bag-valve-mask. (C-1)
- 2-1.14 Describe the steps in artificially ventilating a patient with a flow restricted, oxygen-powered ventilation device. (C-1)
- 2-1.15 Describe how to measure and insert an oropharyngeal (oral) airway. (C-1)
- 2-1.16 Describe how to measure and insert a nasopharyngeal (nasal) airway. (C-1)
- 2-1.17 Define the components of an oxygen delivery system. (C-1)
- 2-1.18 Identify a nonrebreather face mask and state the oxygen flow requirements needed for its use. (C-1)
- 2-1.19 Describe the indications for using a nasal cannula versus a nonrebreather face mask. (C-1)
- 2-1.20 Identify a nasal cannula and state the oxygen flow requirements needed for its use. (C-1)

### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 2-1.21 Explain the rationale for basic life support artificial ventilation and airway protective skills taking priority over most other basic life support skills. (A-3)
- 2-1.22 Explain the rationale for providing adequate oxygenation through high inspired oxygen concentrations to patients who, in the past, may have received low concentrations. (A-3)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 2-1.23 Demonstrate the steps in performing the head-tilt chin-lift. (P-1, 2)
- 2-1.24 Demonstrate the steps in performing the jaw thrust. (P-1, 2)
- 2-1.25 Demonstrate the techniques of suctioning. (P-1, 2)
- 2-1.26 Demonstrate the steps in providing mouth-to-mouth artificial ventilation with body substance isolation (barrier shields). (P-1, 2)
- 2-1.27 Demonstrate how to use a pocket mask to artificially ventilate a patient. (P-1, 2)
- 2-1.28 Demonstrate the assembly of a bag-valve-mask unit. (P-1, 2)
- 2-1.29 Demonstrate the steps in performing the skill of artificially ventilating a patient with a bag-valve-mask for one and two rescuers. (P-1, 2)
- 2-1.30 Demonstrate the steps in performing the skill of artificially ventilating a patient with a bag-valve-mask while using the jaw thrust. (P-1, 2)
- 2-1.31 Demonstrate artificial ventilation of a patient with a flow restricted, oxygen-powered ventilation device. (P-1, 2)
- 2-1.32 Demonstrate how to artificially ventilate a patient with a stoma. (P-1, 2)
- 2-1.33 Demonstrate how to insert an oropharyngeal (oral) airway. (P-1, 2)
- 2-1.34 Demonstrate how to insert a nasopharyngeal (nasal) airway. (P-1, 2)
- 2-1.35 Demonstrate the correct operation of oxygen tanks and regulators. (P-1, 2)
- 2-1.36 Demonstrate the use of a nonrebreather face mask and state the oxygen flow requirements needed for its use. (P-1, 2)
- 2-1.37 Demonstrate the use of a nasal cannula and state the oxygen flow requirements needed for its use. (P-1, 2)
- 2-1.38 Demonstrate how to artificially ventilate the infant and child patient. (P-1, 2)
- 2-1.39 Demonstrate oxygen administration for the infant and child patient. (P-1, 2)

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 2-1.40 *Describe the signs of inadequate artificial ventilation using mechanical ventilations devices, such as a bag-valve-mask. (C-1)*
- 2-1.41 *List the steps in ventilating patients using barrier devices and mouth-to-mouth and mouth-to-stoma artificial ventilation techniques. (C-1)*
- 2-1.42 *Describe the problems in free flow oxygen delivery given long transport times and limited O<sub>2</sub> supplies, and how EMTs can lengthen the time of oxygen delivery by decreasing the flow rate. (P-2)*

### **CPR OBJECTIVES**

Although CPR is considered a prerequisite to the EMT training program, students are required to have mastery of the information and skills. Consequently, the EMT-Instructor should advise students that they are responsible for meeting the following objectives:

- 2-1.43 List the major factors of heart disease and discuss prudent heart living. (C-1)
- 2-1.44 List the signs and symptoms of a heart attack. (C-1)

- 2-1.45 Demonstrate the following skills on a manikin: (P-1)
- a. recovery position;
  - b. rescue breathing (adult, child, and infant);
  - c. foreign body airway obstruction management (adult, child, and infant);
  - d. one-rescuer CPR (adult, child, and infant);
  - e. two-rescuer CPR (adult and child); and
  - f. mouth to mask ventilation.

Recommended time: 4 hours

## **MODULE 2**

### **Airway**

#### **Lesson 2-2**

#### **Practical Lab: Airway**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

2-2.1 Demonstrate the cognitive objectives of Lesson 2-1: Airway.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

2-2.2 Demonstrate the affective objectives of Lesson 2-1: Airway.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

2-2.3 Demonstrate the psychomotor objectives of Lesson 2-1: Airway.

##### **ALASKA SPECIFIC OBJECTIVES**

2-2.4 Demonstrate the Alaska specific objectives of Lesson 2-1: Airway.

Recommended time: 3 hours

## **MODULE 2**

### **Airway**

#### **Lesson 2-3**

#### **Evaluation: Airway**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 2-3.1 Demonstrate knowledge of the cognitive objectives in Module 2.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 2-3.2 Demonstrate knowledge of the affective objectives in Module 2.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 2-3.3 Demonstrate knowledge of the psychomotor objectives in Module 2.

##### **ALASKA SPECIFIC OBJECTIVES**

- 2-3.4 Demonstrate knowledge of the Alaska specific objectives in Module 2.

Recommended time: 1 hour

# **MODULE 3**

## **Patient Assessment**

### **Lesson 3-1**

#### **Scene Size-up**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-1.1 Recognize hazards/potential hazards. (C-1)
- 3-1.2 Describe common hazards found at the scene of a trauma and a medical patient. (C-1)
- 3-1.3 Determine if the scene is safe to enter. (C-2)
- 3-1.4 Discuss common mechanisms of injury/nature of illness. (C-1)
- 3-1.5 Discuss the reason for identifying the total number of patients at the scene. (C-1)
- 3-1.6 Explain the reason for identifying the need for additional help or assistance. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-1.7 Explain the rationale for crew members to evaluate scene safety prior to entering. (A-2)
- 3-1.8 Serve as a model for others explaining how patient situations affect your evaluation of mechanism of injury or illness. (A-2)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-1.9 Observe various scenarios and identify potential hazards. (P-1)

##### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 0.5 hours

# MODULE 3

## Patient Assessment

### Lesson 3-2

#### Initial Assessment

##### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 3-2.1 Summarize the reasons for forming a general impression of the patient. (C-1)
- 3-2.2 Discuss methods of assessing altered mental status. (C-1)
- 3-2.3 Differentiate between assessing the altered mental status in the adult, child and infant patient. (C-3)
- 3-2.4 Discuss methods of assessing the airway in the adult, child and infant patient. (C-1)
- 3-2.5 State reasons for management of the cervical spine once the patient has been determined to be a trauma patient. (C-1)
- 3-2.6 Describe methods used for assessing if a patient is breathing. (C-1)
- 3-2.7 State what care should be provided to the adult, child and infant patient with adequate breathing. (C-1)
- 3-2.8 State what care should be provided to the adult, child and infant patient without adequate breathing. (C-1)
- 3-2.9 Differentiate between a patient with adequate and inadequate breathing. (C-3)
- 3-2.10 Distinguish between methods of assessing breathing in the adult, child and infant patient. (C-3)
- 3-2.11 Compare the methods of providing airway care to the adult, child and infant patient. (C-3)
- 3-2.12 Describe the methods used to obtain a pulse. (C-1)
- 3-2.13 Differentiate between obtaining a pulse in an adult, child and infant patient. (C-3)
- 3-2.14 Discuss the need for assessing the patient for external bleeding. (C-1)
- 3-2.15 Describe normal and abnormal findings when assessing skin color. (C-1)
- 3-2.16 Describe normal and abnormal findings when assessing skin temperature. (C-1)
- 3-2.17 Describe normal and abnormal findings when assessing skin condition. (C-1)
- 3-2.18 Describe normal and abnormal findings when assessing skin capillary refill in the infant and child patient. (C-1)
- 3-2.19 Explain the reason for prioritizing a patient for care and transport. (C-1)

##### AFFECTIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 3-2.20 Explain the importance of forming a general impression of the patient. (A-1)
- 3-2.21 Explain the value of performing an initial assessment. (A-2)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-2.22 Demonstrate the techniques for assessing mental status. (P-1, 2)
- 3-2.23 Demonstrate the techniques for assessing the airway. (P-1, 2)
- 3-2.24 Demonstrate the techniques for assessing if the patient is breathing. (P-1, 2)
- 3-2.25 Demonstrate the techniques for assessing if the patient has a pulse. (P-1, 2)
- 3-2.26 Demonstrate the techniques for assessing the patient for external bleeding. (P-1, 2)
- 3-2.27 Demonstrate the techniques for assessing the patient's skin color, temperature, condition and capillary refill (infants and children only). (P-1, 2)
- 3-2.28 Demonstrate the ability to prioritize patients. (P-1, 2)

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-2.29 *Given a description of hypothetical patients, and assessment findings, identify those who need immediate transport to a medical facility, and explain your rationale for your decisions. (C-2)*

Recommended time: 1 hour

## **MODULE 3**

### **Patient Assessment**

#### **Lesson 3-3**

#### **History and Physical Exam: Trauma**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-3.1 Discuss the reasons for reconsideration concerning the mechanism of injury. (C-1)
- 3-3.2 State the reasons for performing a rapid trauma assessment. (C-1)
- 3-3.3 Recite examples and explain why patients should receive a rapid trauma assessment. (C-1)
- 3-3.4 Describe the areas included in the rapid trauma assessment and discuss what should be evaluated. (C-1)
- 3-3.5 Differentiate when the rapid assessment may be altered in order to provide patient care. (C-3)
- 3-3.6 Discuss the reason for performing a focused history and physical exam. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-3.7 Recognize and respect the feelings that patients might experience during assessment. (A-1)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-3.8 Demonstrate the rapid trauma assessment that should be used to assess a patient based on mechanism of injury. (P-1, 2)

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-3.9 *Demonstrate a focused history and physical examination. (P-1, 2)*

Recommended time: 4.5 hours

## **MODULE 3**

### **Patient Assessment**

#### **Lesson 3-4**

#### **Focused History and Physical Exam: Medical**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-4.1 Describe the unique needs for assessing an individual with a specific chief complaint with no known prior history. (C-1)
- 3-4.2 Differentiate between the history and physical exam that is performed for responsive patients with no known prior history and patients responsive with a known prior history. (C-3)
- 3-4.3 Describe the unique needs for assessing an individual who is unresponsive or has an altered mental status. (C-1)
- 3-4.4 Differentiate between the assessment that is performed for a patient who is unresponsive or has an altered mental status and other medical patients requiring assessment. (C-3)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-4.5 Attend to the feelings that these patients might be experiencing. (A-1)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-4.6 Demonstrate the patient care skills that should be used to assist with a patient who is responsive with no known history. (P-1, 2)
- 3-4.7 Demonstrate the patient care skills that should be used to assist with a patient who is unresponsive or has an altered mental status. (P-1, 2)

##### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 2.5 hours

## **MODULE 3**

### **Patient Assessment**

#### **Lesson 3-5**

#### **Detailed Physical Exam**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-5.1 Discuss the components of the detailed physical exam. (C-1)
- 3-5.2 State the areas of the body that are evaluated during the detailed physical exam. (C-1)
- 3-5.3 Explain what additional care should be provided while performing the detailed physical exam. (C-1)
- 3-5.4 Distinguish between the detailed physical exam that is performed on a trauma patient and that of the medical patient. (C-3)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-5.5 Explain the rationale for the feelings that these patients might be experiencing. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-5.6 Demonstrate the skills involved in performing the detailed physical exam. (P-1, 2)

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-5.7 *Define, describe and discuss the clinical significance of "referred pain." (C-2)*
- 3-5.8 *Define, describe and discuss the clinical significance of "diaphoresis." (C-2)*

Recommended time: 1.5 hours

## **MODULE 3**

### **Patient Assessment**

#### **Lesson 3-6**

#### **On-Going Assessment**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-6.1 Discuss the reasons for repeating the initial assessment as part of the on-going assessment. (C-1)
- 3-6.2 Describe the components of the on-going assessment. (C-1)
- 3-6.3 Describe trending of assessment components. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-6.4 Explain the value of performing an on-going assessment. (A-2)
- 3-6.5 Recognize and respect the feelings that patients might experience during assessment. (A-1)
- 3-6.6 Explain the value of trending assessment components to other health professionals who assume care of the patient. (A-2)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to;

- 3-6.7 Demonstrate the skills involved in performing the on-going assessment. (P-1, 2)

##### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 1 hour

## **MODULE 3**

### **Patient Assessment**

#### **Lesson 3-7**

### **Communications**

#### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-7.1 List the proper methods of initiating and terminating a radio call. (C-1)
- 3-7.2 Explain the importance of effective communication of patient information in verbal reports. (C-1)
- 3-7.3 Identify the essential components of the verbal report. (C-1)
- 3-7.4 Describe the attributes for increasing effectiveness and efficiency of verbal communications. (C-1)
- 3-7.5 State legal aspects to consider in verbal communication. (C-1)
- 3-7.6 Discuss the communication skills that should be used to interact with the patient. (C-1)
- 3-7.7 Discuss the communication skills that should be used to interact with the family, bystanders, and individuals from other agencies while providing patient care and the difference between skills used to interact with the patient and those used to interact with others. (C-1)
- 3-7.8 List the common content and sequence in radio reports during the following phases of a typical call: (C-1)
  - a. to the scene;
  - b. at the patient's side;
  - c. at the facility; and
  - d. to the station.

#### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-7.9 Explain the rationale for providing efficient and effective radio communications and patient reports. (A-3)

#### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-7.10 Perform a simulated, organized, concise radio transmission. (P-2)
- 3-7.11 Perform an organized, concise patient report that would be given to the staff at a receiving facility. (P-2)
- 3-7.12 Perform a brief, organized report that would be given to an ALS provider arriving at an incident scene at which the EMT-I was already providing care. (P-2)

**ALASKA SPECIFIC OBJECTIVES**

- 3-7.13      *State the proper sequence for delivery of patient information via a telecommunications device such a radio. (C-1)*

Recommended time: 1 hour

# **MODULE 3**

## **Patient Assessment**

### **Lesson 3-8**

#### **Documentation**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-8.1 Explain the components of the written report and list the information that should be included in the written report. (C-1)
- 3-8.2 Identify the various sections of the written report. (C-1)
- 3-8.3 Describe what information is required in each section of the prehospital care report and how it should be entered. (C-1)
- 3-8.4 Define the special considerations concerning patient refusal. (C-1)
- 3-8.5 Describe the legal implications associated with the written report. (C-1)
- 3-8.6 Discuss all state and/or local record and reporting requirements. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-8.7 Explain the rationale for patient care documentation. (A-3)
- 3-8.8 Explain the rationale for the EMS system gathering data. (A-3)
- 3-8.9 Explain the rationale for using medical terminology correctly. (A-3)
- 3-8.10 Explain the rationale for using an accurate and synchronous clock so that information can be used in trending. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 3-8.11 Complete a prehospital care report. (P-2)

##### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 1.5 hours

## **MODULE 3**

### **Patient Assessment**

#### **Lesson 3-9**

#### **Practical Lab: Patient Assessment**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

3-9.1 Demonstrate the cognitive objectives of Module 3: Patient Assessment.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

3-9.2 Demonstrate the affective objectives of Module 3: Patient Assessment.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

3-9.3 Demonstrate the psychomotor objectives of Module 3: Patient Assessment.

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

3-9.4 Demonstrate the Alaska specific objectives of Module 3: Patient Assessment.

Recommended time: 10.5 hours

## **MODULE 3**

### **Patient Assessment**

#### **Lesson 3-10**

#### **Evaluation: Patient Assessment**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

3-10.1 Demonstrate knowledge of the cognitive objectives in Module 3.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

3-10.2 Demonstrate knowledge of the affective objectives in Module 3.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

3-10.3 Demonstrate knowledge of the psychomotor objectives in Module 3.

##### **ALASKA SPECIFIC OBJECTIVES**

3-10.4 Demonstrate knowledge of the Alaska specific objectives in Module 3.

Recommended time: 1 hour

## MODULE 4

### Medical/Behavioral and Obstetrics/Gynecology

#### Lesson 4-1

#### General Pharmacology

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-1.1 Identify which medications will be carried on the unit. (C-1)
- 4-1.2 State the medications carried on the unit by the generic name. (C-1)
- 4-1.3 Identify the medications with which the EMT-I may assist the patient with administering. (C-1)
- 4-1.4 State the medications the EMT-I can assist the patient with by the generic name. (C-1)
- 4-1.5 Discuss the forms in which the medications may be found. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-1.6 Explain the rationale for the administration of medications. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-1.7 Demonstrate general steps for assisting patient with self-administration of medications. (P-2)
- 4-1.8 Read the labels and inspect each type of medication. (P-2)

##### **ALASKA SPECIFIC OBJECTIVES**

- 4-1.9 *State the conditions under which nitroglycerin, epinephrine autoinjectors, and bronchodilator inhalers must be stored to maintain effectiveness. (C-1)*
- 4-1.10 *Define anaphylaxis. (C-1)*

Recommended time: 1 hour

## **MODULE 4**

### **Medical/Behavioral and Obstetrics/Gynecology**

#### **Lesson 4-2**

#### **Respiratory Emergencies**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-2.1 List the structure and function of the respiratory system. (C-1)
- 4-2.2 State the signs and symptoms of a patient with breathing difficulty. (C-1)
- 4-2.3 Describe the emergency medical care of the patient with breathing difficulty. (C-1)
- 4-2.4 Recognize the need for medical direction to assist in the emergency medical care of the patient with breathing difficulty. (C-3)
- 4-2.5 Describe the emergency medical care of the patient with breathing distress. (C-1)
- 4-2.6 Establish the relationship between airway management and the patient with breathing difficulty. (C-3)
- 4-2.7 List signs of adequate air exchange. (C-1)
- 4-2.8 State the generic name, medication forms, dose, administration, action, indications and contraindications for the prescribed inhaler. (C-1)
- 4-2.9 Distinguish between the emergency medical care of the infant, child and adult patient with breathing difficulty. (C-3)
- 4-2.10 Differentiate between upper airway obstruction and lower airway disease in the infant and child patient. (C-3)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-2.11 Defend EMT-I treatment regimens for various respiratory emergencies. (A-1)
- 4-2.12 Explain the rationale for administering an inhaler. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-2.13 Demonstrate the emergency medical care for breathing difficulty. (P-1, 2)
- 4-2.14 Perform the steps in facilitating the use of an inhaler. (P-2)

##### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 2.5 hours

## MODULE 4

### Medical/Behavioral and Obstetrics/Gynecology

#### Lesson 4-3

#### Cardiac Emergencies

##### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 4-3.1 Describe the structure and function of the cardiovascular system. (C-1)
- 4-3.2 Describe the emergency medical care of the patient experiencing chest pain/discomfort. (C-1)
- 4-3.3 List the indications for automated external defibrillation (AED). (C-1)
- 4-3.4 List the contraindications for automated external defibrillation. (C-1)
- 4-3.5 Define the role of EMT-B in the emergency cardiac care system. (C-1)
- 4-3.6 Explain the impact of age and weight on defibrillation. (C-1)
- 4-3.7 Discuss the position of comfort for patients with various cardiac emergencies. (C-1)
- 4-3.8 Establish the relationship between airway management and the patient with cardiovascular compromise. (C-3)
- 4-3.9 Predict the relationship between the patient experiencing cardiovascular compromise and basic life support. (C-2)
- 4-3.10 Discuss the fundamentals of early defibrillation. (C-1)
- 4-3.11 Explain the rationale for early defibrillation. (C-1)
- 4-3.12 Explain that not all chest pain patients result in cardiac arrest and do not need to be attached to an automated external defibrillator. (C-1)
- 4-3.13 Explain the importance of prehospital ACLS intervention if it is available. (C-1)
- 4-3.14 Explain the importance of urgent transport to a facility with Advanced Cardiac Life Support if it is not available in the prehospital setting. (C-1)
- 4-3.15 Discuss the various types of automated external defibrillators. (C-1)
- 4-3.16 Differentiate between the fully automated and the semiautomated defibrillator. (C-3)
- 4-3.17 Discuss the procedures that must be taken into consideration for standard operations of the various types of automated external defibrillators. (C-1)
- 4-3.18 State the reasons for assuring that the patient is pulseless and apneic when using the automated external defibrillator. (C-1)
- 4-3.19 Discuss the circumstances which may result in inappropriate shocks. (C-1)
- 4-3.20 Explain the considerations for interruption of CPR, when using the automated external defibrillator. (C-1)
- 4-3.21 Discuss the advantages and disadvantages of automated external defibrillators. (C-1)
- 4-3.22 Summarize the speed of operation of automated external defibrillation. (C-1)
- 4-3.23 Discuss the use of remote defibrillation through adhesive pads. (C-1)
- 4-3.24 Discuss the special considerations for rhythm monitoring. (C-1)
- 4-3.25 List the steps in the operation of the automated external defibrillator. (C-1)
- 4-3.26 Discuss the standard of care that should be used to provide care to a patient with persistent ventricular fibrillation and no available ACLS. (C-1)
- 4-3.27 Discuss the standard of care that should be used to provide care to a patient with recurrent ventricular fibrillation and no available ACLS. (C-1)

- 4-3.28 Differentiate between the single rescuer and multi-rescuer care with an automated external defibrillator. (C-3)
- 4-3.29 Explain the reason for pulses not being checked between shocks with an automated external defibrillator. (C-1)
- 4-3.30 Discuss the importance of coordinating ACLS trained providers with personnel using automated external defibrillators. (C-1)
- 4-3.31 Discuss the importance of post-resuscitation care. (C-1)
- 4-3.32 List the components of post-resuscitation care. (C-1)
- 4-3.33 Explain the importance of frequent practice with the automated external defibrillator. (C-1)
- 4-3.34 Discuss the need to complete the Automated Defibrillator: Operator's Shift Checklist. (C-1)
- 4-3.35 Discuss the role of the American Heart Association (AHA) in the use of automated external defibrillation. (C-1)
- 4-3.36 Explain the role medical direction plays in the use of automated external defibrillation. (C-1)
- 4-3.37 State the reasons why a case review should be completed following the use of the automated external defibrillator. (C-1)
- 4-3.38 Discuss the components that should be included in a case review. (C-1)
- 4-3.39 Discuss the goal of quality improvement in automated external defibrillation. (C-1)
- 4-3.40 Recognize the need for medical direction of protocols to assist in the emergency medical care of the patient with chest pain. (C-3)
- 4-3.41 List the indications for the use of nitroglycerin. (C-1)
- 4-3.42 State the contraindications and side effects for the use of nitroglycerin. (C-1)
- 4-3.43 Define the function of all controls on an automated external defibrillator, and describe event documentation and battery defibrillator maintenance. (C-1)

### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-3.44 Defend the reasons for obtaining initial training in automated external defibrillation and the importance of continuing education. (A-3)
- 4-3.45 Defend the reason for maintenance of automated external defibrillators. (A-3)
- 4-3.46 Explain the rationale for administering nitroglycerin to a patient with chest pain or discomfort. (A-3)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-3.47 Demonstrate the assessment and emergency medical care of a patient experiencing chest pain/discomfort. (P-1, 2)
- 4-3.48 Demonstrate the application and operation of the automated external defibrillator. (P-1, 2)
- 4-3.49 Demonstrate the maintenance of an automated external defibrillator. (P-1, 2)
- 4-3.50 Demonstrate the assessment and documentation of patient response to the automated external defibrillator. (P-1, 2)
- 4-3.51 Demonstrate the skills necessary to complete the Automated Defibrillator: Operator's Shift Checklist. (P-1, 2)
- 4-3.52 Perform the steps in facilitating the use of nitroglycerin for chest pain or discomfort. (P-2)
- 4-3.53 Demonstrate the assessment and documentation of patient response to nitroglycerin. (P-1, 2)

- 4-3.54 Practice completing a prehospital care report for patients with cardiac emergencies. (P-2)

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-3.55 *List the requirements for becoming a defibrillator technician. (C-1)*
- 4-3.56 *Define and list the signs and symptoms of congestive heart failure. (C-1)*
- 4-3.57 *Compare and contrast the emergency cardiac care, including CPR, provided to patients with and without automatic implantable cardiac defibrillators. (C-1)*
- 4-3.58 *Define "cerebrovascular accident" and describe its signs, symptoms and treatment. (C-1)*

Recommended time: 7.5 hours

## **MODULE 4**

### **Medical/Behavioral and Obstetrics/Gynecology**

#### **Lesson 4-4**

#### **Diabetic Emergencies/Altered Mental Status**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-4.1 Identify the patient taking diabetic medications with altered mental status and the implications of a diabetes history. (C-1)
- 4-4.2 State the steps in the emergency medical care of the patient taking diabetic medicine with an altered mental status and a history of diabetes. (C-1)
- 4-4.3 Establish the relationship between airway management and the patient with altered mental status. (C-3)
- 4-4.4 State the generic and trade names, medication forms, dose, administration, action, and contraindications for oral glucose. (C-1)
- 4-4.5 Evaluate the need for medical direction in the emergency medical care of the diabetic patient. (C-3)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-4.6 Explain the rationale for administering oral glucose. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-4.7 Demonstrate the steps in the emergency medical care for the patient taking diabetic medicine with an altered mental status and a history of diabetes. (P-1, 2)
- 4-4.8 Demonstrate the steps in the administration of oral glucose. (P-1, 2)
- 4-4.9 Demonstrate the assessment and documentation of patient response to oral glucose. (P-1, 2)
- 4-4.10 Demonstrate how to complete a prehospital care report for patients with diabetic emergencies. (P-2)

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-4.11 *Describe the assessment and treatment of the adult patient having seizures. (C-1)*

Recommended time: 2.5 hours

## Module 4

### Medical/Behavioral and Obstetrics/Gynecology

#### Lesson 4-5

#### Allergies

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-5.1 Recognize the patient experiencing an allergic reaction. (C-1)
- 4-5.2 Describe the emergency medical care of the patient with an allergic reaction. (C-1)
- 4-5.3 Establish the relationship between the patient with an allergic reaction and airway management. (C-3)
- 4-5.4 Describe the mechanisms of allergic response and the implications for airway management. (C-1)
- 4-5.5 State the generic and trade names, medication forms, dose, administration, action, and contraindications for the epinephrine auto-injector. (C-1)
- 4-5.6 Evaluate the need for medical direction in the emergency medical care of the patient with an allergic reaction. (C-3)
- 4-5.7 Differentiate between the general category of those patients having an allergic reaction and those patients having an allergic reaction and requiring immediate medical care, including immediate use of epinephrine auto-injector. (C-3)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-5.8 Explain the rationale for administering epinephrine using an auto-injector. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-5.9 Demonstrate the emergency medical care of the patient experiencing an allergic reaction. (P-1, 2)
- 4-5.10 Demonstrate the use of epinephrine auto-injector. (P-1, 2)
- 4-5.11 Demonstrate the assessment and documentation of patient response to an epinephrine injection. (P-1, 2)
- 4-5.12 Demonstrate proper disposal of equipment. (P-1, 2)
- 4-5.13 Demonstrate completing a prehospital care report for patients with allergic emergencies. (P-2)

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-5.14 *List three of the most common allergens found in the community in which the EMT will be providing care. (C-1)*

Recommended time: 2 hours

## **MODULE 4**

### **Medical/Behavioral and Obstetrics/Gynecology**

#### **Lesson 4-6**

#### **Poisoning/Overdose**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-6.1 List various ways that poisons enter the body. (C-1)
- 4-6.2 List signs/symptoms associated with poisoning. (C-1)
- 4-6.3 Discuss the emergency medical care for the patient with possible overdose. (C-1)
- 4-6.4 Describe the steps in the emergency medical care for the patient with suspected poisoning. (C-1)
- 4-6.5 Establish the relationship between the patient suffering from poisoning or overdose and airway management. (C-3)
- 4-6.6 State the generic and trade names, indications, contraindications, medication form, dose, administration, actions, side effects and re-assessment strategies for activated charcoal. (C-1)
- 4-6.7 Recognize the need for medical direction in caring for the patient with poisoning or overdose. (C-3)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-6.8 Explain the rationale for administering activated charcoal. (A-3)
- 4-6.9 Explain the rationale for contacting medical direction early in the prehospital management of the poisoning or overdose patient. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-6.10 Demonstrate the steps in the emergency medical care for the patient with possible overdose. (P-1, 2)
- 4-6.11 Demonstrate the steps in the emergency medical care for the patient with suspected poisoning. (P-1, 2)
- 4-6.12 Perform the necessary steps required to provide a patient with activated charcoal. (P-2)
- 4-6.13 Demonstrate the assessment and documentation of patient response. (P-1, 2)
- 4-6.14 Demonstrate proper disposal of the equipment for the administration of activated charcoal. (P-1, 2)
- 4-6.15 Demonstrate completing a prehospital care report for patients with a poisoning/overdose emergency. (P-1, 2)

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-6.16     *Categorize alcohol as a drug and describe its effects on the body in small, moderate, and large amounts. (C-1)*
- 4-6.17     *Describe the indications, contraindications, dosage, and side effects of syrup of ipecac, as well as the sequence of administration when also using activated charcoal. (C-1)*
- 4-6.18     *List three common drugs of abuse within the community in which the course is being taught. (C-1)*
- 4-6.19     *State the nation-wide poison control number. (C-1)*

Recommended time: 2.5 hours

## MODULE 4

### Medical/Behavioral and Obstetrics/Gynecology

#### Lesson 4-7

#### Environmental Emergencies

##### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 4-7.1 Describe the various ways that the body loses heat. (C-1)
- 4-7.2 List the signs and symptoms of exposure to cold. (C-1)
- 4-7.3 Explain the steps in providing emergency medical care to a patient exposed to cold. (C-1)
- 4-7.4 List the signs and symptoms of exposure to heat. (C-1)
- 4-7.5 Explain the steps in providing emergency care to a patient exposed to heat. (C-1)
- 4-7.6 Recognize the signs and symptoms of water-related emergencies. (C-1)
- 4-7.7 Describe the complications of near drowning. (C-1)
- 4-7.8 Discuss the emergency medical care of bites and stings. (C-1)

##### AFFECTIVE OBJECTIVES

No affective objectives identified.

##### PSYCHOMOTOR OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 4-7.9 Demonstrate the assessment and emergency medical care of a patient with exposure to cold. (P-1, 2)
- 4-7.10 Demonstrate the assessment and emergency medical care of a patient with exposure to heat. (P-1, 2)
- 4-7.11 Demonstrate the assessment and emergency medical care of a near drowning patient. (P-1, 2)
- 4-7.12 Demonstrate completing a prehospital care report for patients with environmental emergencies. (P-2)

##### ALASKA SPECIFIC OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 4-7.13 *Describe the assessment and management of moderate and severe hypothermia as outlined in the Alaska **Cold Injuries Guidelines**. (C-1)*
- 4-7.14 *Describe the assessment and management of the cold water near drowning as outlined in the Alaska **Cold Injuries Guidelines**. (C-1)*
- 4-7.15 *Describe the assessment and management of frostbite as outlined in the Alaska **Cold Injuries Guidelines**. (C-1)*

Recommended time: 3 hours

## MODULE 4

### Medical/Behavioral and Obstetrics/Gynecology

#### Lesson 4-8

#### Behavioral Emergencies

*Note: all objectives in this lesson are Alaska specific*

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-8.1 Define behavioral emergencies. (C-1)
- 4-8.2 Discuss four general factors that may cause an alteration in a patient's behavior. (C-1)
- 4-8.3 State types of behaviors that may indicate a psychiatric crisis. (C-1)
- 4-8.4 Discuss two elements to be included in an initial assessment of a patient in a behavioral emergency. (C-1)
- 4-8.5 Discuss two elements to be included in a focused history and physical assessment of a patient in a behavioral emergency. (C-1)
- 4-8.6 Discuss four characteristics which may indicate a patient is at risk for suicide. (C-1)
- 4-8.7 Discuss three special medical/legal considerations for managing a patient who is a danger to self/others but refuses treatment. (C-1)
- 4-8.8 Discuss three behavioral signs which indicate a patient is at risk for violence. (C-1)
- 4-8.9 Discuss four methods to calm behavioral emergency patients. (C-1)
- 4-8.10 Know where to find information on how behavioral problems are expressed across cultures in Alaska. (C-1)
- 4-8.11 Name three medications commonly used in the treatment of psychiatric disorders. (C-1)
- 4-8.12 Describe the emergency mental health services available in the student's community. (C-1)
- 4-8.13 Describe the importance of scene safety. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-8.14 Explain two reasons for modifying your behavior toward the patient in a behavioral emergency (A-3)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-8.10 Demonstrate the assessment and emergency medical care of the patient experiencing a behavioral emergency (P-1, 2)
  - a. adolescent suicide;
  - b. drug delirium; and
  - c. A.S.K. Questionnaire.
- 4-8.11 Demonstrate at least one technique to safely restrain a patient with a behavioral problem (P-1, 2)

Recommended time: 2 hours

## MODULE 4

### Medical/Behavioral and Obstetrics/Gynecology

#### Lesson 4-9

#### Obstetrics/ Gynecology

##### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 4-9.1 Identify the following structures: (C-1)
  - a. uterus
  - b. vagina
  - c. fetus
  - d. placenta
  - e. umbilical cord
  - f. amniotic sac
  - g. perineum.
- 4-9.2 Identify and explain the use of the contents of an obstetrics kit. (C-1)
- 4-9.3 Identify predelivery emergencies. (C-1)
- 4-9.4 State the indications of an imminent delivery. (C-1)
- 4-9.5 Differentiate the emergency medical care provided to a patient with predelivery emergencies from a normal delivery. (C-3)
- 4-9.6 State the steps in the predelivery preparation of the mother. (C-1)
- 4-9.7 Establish the relationship between body substance isolation and childbirth. (C-3)
- 4-9.8 State the steps to assist in the delivery. (C-1)
- 4-9.9 Describe care of the baby as the head appears. (C-1)
- 4-9.10 Describe how and when to cut the umbilical cord. (C-1)
- 4-9.11 Discuss the steps in the delivery of the placenta. (C-1)
- 4-9.12 List the steps in the emergency medical care of the mother post-delivery. (C-3)
- 4-9.13 Summarize neonatal resuscitation procedures. (C-1)
- 4-9.14 Describe the procedures for the following abnormal deliveries: (C-1)
  - a. breech birth;
  - b. prolapsed cord; and
  - c. limb presentation.
- 4-9.15 Differentiate the special considerations for multiple births. (C-3)
- 4-9.16 Describe special considerations of meconium. (C-1)
- 4-9.17 Describe special considerations of a premature baby. (C-1)
- 4-9.18 Discuss the emergency medical care of a patient with a gynecological emergency. (C-1)

##### AFFECTIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 4-9.19 Explain the rationale for understanding the implications of treating two patients (mother and baby). (A-3)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-9.20 Demonstrate the steps to assist in the normal cephalic delivery. (P-1, 2)
- 4-9.21 Demonstrate necessary care procedures of the fetus as the head appears. (P-1, 2)
- 4-9.22 Demonstrate infant neonatal procedures. (P-1, 2)
- 4-9.23 Demonstrate post-delivery care of infant. (P-1, 2)
- 4-9.24 Demonstrate how and when to cut the umbilical cord. (P-1, 2)
- 4-9.25 Attend to the steps in the delivery of the placenta. (P-1, 2)
- 4-9.26 Demonstrate the post-delivery care of the mother. (P-1, 2)
- 4-9.27 Demonstrate the procedures for the following abnormal deliveries: vaginal bleeding, breech birth, prolapsed cord, limb presentation. (P-1, 2)
- 4-9.28 Demonstrate the steps in the emergency medical care of the mother with excessive bleeding. (P-1, 2)
- 4-9.29 Demonstrate completing a prehospital care report for patients with obstetrical/gynecological emergencies. (P-2)

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-1.30 *Define eclampsia and preeclampsia and list the signs, symptoms, and basic management. (C-1)*

Recommended time: 2 hours

## **MODULE 4**

### **Medical/Behavioral and Obstetrics/Gynecology**

#### **Lesson 4-10**

#### **Practical Lab: Medical/Behavioral and Obstetrics/Gynecology**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-10.1 Demonstrate the cognitive objectives of Module 4: Medical/Behavioral and Obstetrics/Gynecology.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-10.2 Demonstrate the affective objectives of Module 4: Medical/Behavioral and Obstetrics/Gynecology.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-10.3 Demonstrate the psychomotor objectives of Module 4: Medical/Behavioral and Obstetrics/Gynecology.

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-10.4 Demonstrate the Alaska specific objectives of Module 4: Medical/Behavioral and Obstetrics/Gynecology.

Recommended time: 10 hours

## **MODULE 4**

### **Medical/Behavioral and Obstetrics/Gynecology**

#### **Lesson 4-11**

#### **Evaluation: Medical/Behavioral and Obstetrics/Gynecology**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-11.1 Demonstrate knowledge of the cognitive objectives in Module 4: Medical/Behavioral and Obstetrics/Gynecology.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-11.2 Demonstrate knowledge of the affective objectives in Module 4: Medical/Behavioral and Obstetrics/Gynecology.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 4-11.3 Demonstrate knowledge of the psychomotor objectives in Module 4: Medical/Behavioral and Obstetrics/Gynecology.

##### **ALASKA SPECIFIC OBJECTIVES**

- 4-11.4 Demonstrate knowledge of the Alaska specific objectives in Module 4: Medical/Behavioral and Obstetrics/Gynecology.

Recommended time: 1 hour

# MODULE 5

## Trauma

### Lesson 5-1

#### Bleeding and Shock

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-1.1 List the structure and function of the circulatory system. (C-1)
- 5-1.2 Differentiate between arterial, venous and capillary bleeding. (C-3)
- 5-1.3 State methods of emergency medical care of external bleeding. (C-1)
- 5-1.4 Establish the relationship between body substance isolation and bleeding. (C-3)
- 5-1.5 Establish the relationship between airway management and the trauma patient. (C-3)
- 5-1.6 Establish the relationship between mechanism of injury and internal bleeding. (C-3)
- 5-1.7 List the signs of internal bleeding. (C-1)
- 5-1.8 List the steps in the emergency medical care of the patient with signs and symptoms of internal bleeding. (C-1)
- 5-1.9 List signs and symptoms of shock (hypoperfusion). (C-1)
- 5-1.10 State the steps in the emergency medical care of the patient with signs and symptoms of shock (hypoperfusion). (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-1.11 Explain the sense of urgency to transport patients that are bleeding and show signs of shock (hypoperfusion). (A-1)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-1.12 Demonstrate direct pressure as a method of emergency medical care of external bleeding. (P-1, 2)
- 5-1.13 Demonstrate the use of diffuse pressure as a method of emergency medical care of external bleeding. (P-1, 2)
- 5-1.14 Demonstrate the use of pressure points and tourniquets as a method of emergency medical care of external bleeding. (P-1, 2)
- 5-1.15 Demonstrate the care of the patient exhibiting signs and symptoms of internal bleeding. (P-1, 2)
- 5-1.16 Demonstrate the care of the patient exhibiting signs and symptoms of shock (hypoperfusion). (P-1, 2)
- 5-1.17 Demonstrate completing a prehospital care report for patient with bleeding and/or shock (hypoperfusion). (P-2)

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-1.18 *Demonstrate the use of the PASG for pelvic injuries. (P-2)*
- 5-1.19 *Demonstrate the use of the PASG for the patient in hypovolemic shock in accordance with Alaska Prehospital Trauma Guidelines. (P-2)*

- 5-1.20 *Demonstrate the proper application of the PASG on the patient with suspected spinal injuries. (P-2)*
- 5.1.21 *List any absolute and relative contraindication for the use of the PASG as outlined in the **Alaska Prehospital Trauma Guidelines**. (C-1)*

Recommended time: 3 hours

# MODULE 5

## Trauma

### Lesson 5-2

#### Soft Tissue Injuries

##### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 5-2.1 State the major functions of the skin. (C-1)
- 5-2.2 List the layers of the skin. (C-1)
- 5-2.3 Establish the relationship between body substance isolation (BSI) and soft tissue injuries. (C-3)
- 5-2.4 List the types of closed soft tissue injuries. (C-1)
- 5-2.5 Describe the emergency medical care of the patient with a closed soft tissue injury. (C-1)
- 5-2.6 State the types of open soft tissue injuries. (C-1)
- 5-2.7 Describe the emergency medical care of the patient with an open soft tissue injury. (C-1)
- 5-2.8 Discuss the emergency medical care considerations for a patient with a penetrating chest injury. (C-1)
- 5-2.9 State the emergency medical care considerations for a patient with an open wound to the abdomen. (C-1)
- 5-2.10 Differentiate the care of an open wound to the chest from an open wound to the abdomen. (C-3)
- 5-2.11 List the classifications of burns. (C-1)
- 5-2.12 Define superficial burn. (C-1)
- 5-2.13 List the characteristics of a superficial burn. (C-1)
- 5-2.14 Define partial thickness burn. (C-1)
- 5-2.15 List the characteristics of a partial thickness burn. (C-1)
- 5-2.16 Define full thickness burn. (C-1)
- 5-2.17 List the characteristics of a full thickness burn. (C-1)
- 5-2.18 Describe the emergency medical care of the patient with a superficial burn. (C-1)
- 5-2.19 Describe the emergency medical care of the patient with a partial thickness burn. (C-1)
- 5-2.20 Describe the emergency medical care of the patient with a full thickness burn. (C-1)
- 5-2.21 List the functions of dressing and bandaging. (C-1)
- 5-2.22 Describe the purpose of a bandage. (C-1)
- 5-2.23 Describe the steps in applying a pressure dressing. (C-1)
- 5-2.24 Establish the relationship between airway management and the patient with chest injury, burns, blunt and penetrating injuries. (C-1)
- 5-2.25 Describe the effects of improperly applied dressings, splints and tourniquets. (C-1)
- 5-2.26 Describe the emergency medical care of a patient with an impaled object. (C-1)
- 5-2.27 Describe the emergency medical care of a patient with an amputation. (C-1)
- 5-2.28 Describe the emergency care for a chemical burn. (C-1)
- 5-2.29 Describe the emergency care for an electrical burn. (C-1)

### **AFFECTIVE OBJECTIVES**

No affective objectives identified.

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-2.30 Demonstrate the steps in the emergency medical care of closed soft tissue injuries. (P-1, 2)
- 5-2.31 Demonstrate the steps in the emergency medical care of open soft tissue injuries. (P-1, 2)
- 5-2.32 Demonstrate the steps in the emergency medical care of a patient with an open chest wound. (P-1, 2)
- 5-2.33 Demonstrate the steps in the emergency medical care of a patient with open abdominal wounds. (P-1, 2)
- 5-2.34 Demonstrate the steps in the emergency medical care of a patient with an impaled object. (P-1, 2)
- 5-2.35 Demonstrate the steps in the emergency medical care of a patient with an amputation. (P-1, 2)
- 5-2.36 Demonstrate the steps in the emergency medical care of an amputated part. (P-1, 2)
- 5-2.37 Demonstrate the steps in the emergency medical care of a patient with superficial burns. (P-1, 2)
- 5-2.38 Demonstrate the steps in the emergency medical care of a patient with partial thickness burns. (P-1, 2)
- 5-2.39 Demonstrate the steps in the emergency medical care of a patient with full thickness burns. (P-1, 2)
- 5-2.40 Demonstrate the steps in the emergency medical care of a patient with a chemical burn. (P-1, 2)
- 5-2.41 Demonstrate completing a prehospital care report for patients with soft tissue injuries. (P-2)

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-2.41 *Describe the signs and symptoms of tension pneumothorax and its management. (C-1)*
- 5-2.42 *Describe the signs and symptoms of pericardial tamponade and its management. (C-1)*
- 5-2.43 *State the emergency medical care considerations for a patient with an open wound to the abdomen. (C-1)*
- 5-2.44 *Describe the assessment and care of abdominal trauma in accordance with the Alaska Prehospital Trauma Guidelines. (C-1)*

Recommended time: 3 hours

# MODULE 5

## Trauma

### Lesson 5-3

#### Musculoskeletal Care

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-3.1 Describe the function of the muscular system. (C-1)
- 5-3.2 Describe the function of the skeletal system. (C-1)
- 5-3.3 List the major bones or bone groupings of the spinal column; the thorax; the upper extremities; the lower extremities. (C-1)
- 5-3.4 Differentiate between an open and a closed painful, swollen, deformed extremity. (C-1)
- 5-3.5 State the reasons for splinting. (C-1)
- 5-3.6 List the general rules of splinting. (C-1)
- 5-3.7 List the complications of splinting. (C-1)
- 5-3.8 List the emergency medical care for a patient with a painful, swollen, deformed extremity. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-3.9 Explain the rationale for splinting at the scene versus load and go. (A-3)
- 5-3.10 Explain the rationale for immobilization of the painful, swollen, deformed extremity. (A-3)

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-3.11 Demonstrate the emergency medical care of a patient with a painful, swollen, deformed extremity. (P-1, 2)
- 5-3.12 Demonstrate completing a prehospital care report for patients with musculoskeletal injuries. (P-2)

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-3.13 *Define fracture and dislocation. (C-1)*
- 5-3.14 *Demonstrate the application of a traction splint. (P-1)*
- 5-3.15 *Describe the signs and symptoms of a flail chest and its management. (C-1)*

Recommended time: 5 hours

# MODULE 5

## Trauma

### Lesson 5-4

#### Injuries to the Head and Spine

##### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 5-4.1 State the components of the nervous system. (C-1)
- 5-4.2 List the functions of the central nervous system. (C-1)
- 5-4.3 Define the structure of the skeletal system as it relates to the nervous system. (C-1)
- 5-4.4 Relate mechanism of injury to potential injuries of the head and spine. (C-3)
- 5-4.5 Describe the implications of not properly caring for potential spine injuries. (C-1)
- 5-4.6 State the signs and symptoms of a potential spine injury. (C-1)
- 5-4.7 Describe the method of determining if a responsive patient may have a spine injury. (C-1)
- 5-4.8 Relate the airway emergency medical care techniques to the patient with a suspected spine injury. (C-3)
- 5-4.9 Describe how to stabilize the cervical spine. (C-1)
- 5-4.10 Discuss indications for sizing and using a cervical spine immobilization device. (C-1)
- 5-4.11 Establish the relationship between airway management and the patient with head and spine injuries. (C-1)
- 5-4.12 Describe a method for sizing a cervical spine immobilization device. (C-1)
- 5-4.13 Describe how to log roll a patient with a suspected spine injury. (C-1)
- 5-4.14 Describe how to secure a patient to a long spine board. (C-1)
- 5-4.15 List instances when a short spine board should be used. (C-1)
- 5-4.16 Describe how to immobilize a patient using a short spine board. (C-1)
- 5-4.17 Describe the indications for the use of rapid extrication. (C-1)
- 5-4.18 List steps in performing rapid extrication. (C-1)
- 5-4.19 State the circumstances when a helmet should be left on the patient. (C-1)
- 5-4.20 Discuss the circumstances when a helmet should be removed. (C-1)
- 5-4.21 Identify different types of helmets. (C-1)
- 5-4.22 Describe the unique characteristics of sports helmets. (C-1)
- 5-4.23 Explain the preferred methods to remove a helmet. (C-1)
- 5-4.24 Discuss alternative methods for removal of a helmet. (C-1)
- 5-4.25 Describe how the patient's head is stabilized to remove the helmet. (C-1)
- 5-4.26 Differentiate how the head is stabilized with a helmet compared to without a helmet. (C-3)

##### AFFECTIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 5-4.27 Explain the rationale for immobilization of the entire spine when a cervical spine injury is suspected. (A-3)
- 5-4.28 Explain the rationale for utilizing immobilization methods apart from the straps on the cots. (A-3)

- 5-4.29 Explain the rationale for utilizing a short spine immobilization device when moving a patient from the sitting to the supine position (A-3)
- 5-4.30 Explain the rationale for utilizing rapid extrication approaches only when they indeed will make the difference between life and death. (A-3)
- 5-4.31 Defend the reasons for leaving a helmet in place for transport of a patient. (A-3)
- 5-4.32 Defend the reasons for removal of a helmet prior to transport of a patient. (A-3)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-4.33 Demonstrate opening the airway in a patient with suspected spinal cord injury. (P-1,2)
- 5-4.34 Demonstrate evaluating a responsive patient with a suspected spinal cord injury. (P-1, 2)
- 5-4.35 Demonstrate stabilization of the cervical spine. (P-1, 2)
- 5-4.36 Demonstrate how to log roll a patient with a suspected spinal cord injury. (P-1, 2)
- 5-4.37 Demonstrate securing a patient to a long spine board. (P-1, 2)
- 5-4.38 Demonstrate using the short board immobilization technique (P-1, 2)
- 5-4.39 Demonstrate procedure for rapid extrication. (P-1, 2)
- 5-4.40 Demonstrate preferred methods for stabilization of a helmet. (P-1, 2)
- 5-4.41 Demonstrate helmet removal techniques. (P-1, 2)
- 5-4.42 Demonstrate alternative methods for stabilization of a helmet. (P-1, 2)
- 5-4.43 Demonstrate completing a prehospital care report for patients with head and spinal injuries. (P-2)

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 5-4.44 *Describe the assessment and care of the head injured trauma patient in accordance with the **Alaska Prehospital Trauma Guidelines**. (C-1)*
- 5-4.45 *State the rate for ventilating a patient with a head injury in accordance with the **Alaska Prehospital Trauma Guidelines**. (C-1)*
- 5-4.46 *Describe the proper positioning of a head injured patient for transport. (C-1)*
- 5-4.47 *Compare and contrast the vital signs of a head injured patient with those of a patient in shock. (C-2)*
- 5-4.48 *Describe how a patient found in a position other than supine, such as seated, may be safely straightened into a position allowing immobilization. (C-2)*
- 5-4.49 *Describe the techniques for the safe movement of a patient who is on a backboard. (C-2)*
- 5-4.50 *Demonstrate the techniques for the safe movement of a patient who is on a backboard. (P-2)*

Recommended time: 5 hours

# **MODULE 5**

## **Trauma**

### **Lesson 5-5**

#### **Practical Lab: Trauma**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

5-5.1 Demonstrate the cognitive objectives of Module 5: Trauma.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

5-5.2 Demonstrate the affective objectives of Module 5: Trauma.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

5-5.3 Demonstrate the psychomotor objectives of Module 5: Trauma.

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

5-5.4 Demonstrate the Alaska specific objectives of Module 5: Trauma.

Recommended time: 10 hours

# **MODULE 5**

## **Trauma**

### **Lesson 5-6**

#### **Evaluation: Trauma**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

5-6.1 Demonstrate knowledge of the cognitive objectives in Module 5: Trauma.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

5-6.2 Demonstrate knowledge of the affective objectives in Module 5: Trauma.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

5-6.3 Demonstrate knowledge of the psychomotor objectives in Module 5: Trauma.

##### **ALASKA SPECIFIC OBJECTIVES**

5-6.4 Demonstrate knowledge of the Alaska specific objectives in Module 5: Trauma.

Recommended time: 1 hour

# MODULE 6

## Infants and Children

### Lesson 6-1

## Infants and Children

### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 6-1.1 Identify the developmental considerations for the following age groups: (C-1)
  - a. infants;
  - b. toddlers;
  - c. pre-school;
  - d. school age; and
  - e. adolescent.
- 6-1.2 Describe differences in anatomy and physiology of the infant, child and adult patient. (C-1)
- 6-1.3 Differentiate the response of the ill or injured infant or child (age specific) from that of an adult. (C-3)
- 6-1.4 Indicate various causes of respiratory emergencies. (C-1)
- 6-1.5 Differentiate between respiratory distress and respiratory failure. (C-3)
- 6-1.6 List the steps in the management of foreign body airway obstruction. (C-1)
- 6-1.7 Summarize emergency medical care strategies for respiratory distress and respiratory failure. (C-1)
- 6-1.8 Identify the signs and symptoms of shock (hypoperfusion) in the infant and child patient. (C-1)
- 6-1.9 Describe the methods of determining end organ perfusion in the infant and child patient. (C-1)
- 6-1.10 State the usual cause of cardiac arrest in infants and children versus adults. (C-1)
- 6-1.11 List the common causes of seizures in the infant and child patient. (C-1)
- 6-1.12 Describe the management of seizures in the infant and child patient. (C-1)
- 6-1.13 Differentiate between the injury patterns in adults, infants, and children. (C-3)
- 6-1.14 Discuss the field management of the infant and child trauma patient. (C-1)
- 6-1.15 Summarize the indicators of possible child abuse and neglect. (C-1)
- 6-1.16 Describe the medical legal responsibilities in suspected child abuse. (C-1)
- 6-1.17 Recognize need for EMT-I debriefing following a difficult infant or child transport. (C-1)

### AFFECTIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 6-1.18 Explain the rationale for having knowledge and skills appropriate for dealing with the infant and child patient. (A-3)
- 6-1.19 Attend to the feelings of the family when dealing with an ill or injured infant or child. (A-1)
- 6-1.20 Understand the provider's own response (emotional) to caring for infants or children. (A-1)

### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 6-1.21 Demonstrate the techniques of foreign body airway obstruction removal in the infant. (P-1, 2)
- 6-1.22 Demonstrate the techniques of foreign body airway obstruction removal in the child. (P-1,2)
- 6-1.23 Demonstrate the assessment of the infant and child. (P-1, 2)
- 6-1.24 Demonstrate bag-valve-mask artificial ventilations for the infant. (P-1, 2)
- 6-1.25 Demonstrate bag-valve-mask artificial ventilations for the child. (P-1, 2)
- 6-1.26 Demonstrate oxygen delivery for the infant and child. (P-1, 2)

### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 6-1.27 *Describe the requirements and procedures for reporting suspicions of child abuse and neglect. (C-1)*

Recommended time: 3 hours

# **MODULE 6**

## **Infants and Children**

### **Lesson 6-2**

#### **Practical Lab: Infants and Children**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

6-2.1 Demonstrate the cognitive objectives of Module 6: Infants and Children.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

6-2.2 Demonstrate the affective objectives of Module 6: Infants and Children.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

6-2.3 Demonstrate the psychomotor objectives of Module 6: Infants and Children.

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

6-2.4 Demonstrate the Alaska specific objectives of Module 6: Infants and Children.

Recommended time: 3 hours

# **MODULE 6**

## **Infants and Children**

### **Lesson 6-3**

#### **Evaluation: Infants and Children**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 6-3.1 Demonstrate knowledge of the cognitive objectives in Module 6: Infants and Children.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 6-3.2 Demonstrate knowledge of the affective objectives in Module 6: Infants and Children.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 6-3.3 Demonstrate knowledge of the psychomotor objectives in Module 6: Infants and Children.

##### **ALASKA SPECIFIC OBJECTIVES**

- 6-3.4 Demonstrate knowledge of the Alaska specific objectives in Module 6: Infants and Children.

Recommended time: 1 hour

# MODULE 7

## Operations

### Lesson 7-1

#### Ambulance Operations

##### COGNITIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 7-1.1 Discuss the medical and non-medical equipment needed to respond to a call. (C-1)
- 7-1.2 List the phases of an ambulance call. (C-1)
- 7-1.3 Describe the general provisions of state laws relating to the operation of the ambulance and privileges in any or all of the following categories: (C-1)
  - a. speed;
  - b. warning lights;
  - c. sirens;
  - d. right-of-way;
  - e. parking; and
  - f. turning.
- 7-1.4 List contributing factors to unsafe driving conditions. (C-1)
- 7-1.5 Describe the considerations that should be given to: (C-1)
  - a. request for escorts;
  - b. following an escort vehicle; and
  - c. intersections.
- 7-1.6 Discuss "Due Regard For Safety of All Others" while operating an emergency vehicle. (C-1)
- 7-1.7 State what information is essential in order to respond to a call. (C-1)
- 7-1.8 Discuss various situations that may affect response to a call. (C-1)
- 7-1.9 Differentiate between the various methods of moving a patient to the unit based upon injury or illness. (C-3)
- 7-1.10 Apply the components of the essential patient information in a written report. (C-2)
- 7-1.11 Summarize the importance of preparing the unit for the next response. (C-1)
- 7-1.12 Identify what is essential for completion of a call. (C-1)
- 7-1.13 Distinguish among the terms cleaning, disinfection, high-level disinfection, and sterilization. (C-3)
- 7-1.14 Describe how to clean or disinfect items following patient care. (C-1)

##### AFFECTIVE OBJECTIVES

At the completion of this lesson, the EMT-I student will be able to:

- 7-1.15 Explain the rationale for appropriate report of patient information. (A-3)
- 7-1.16 Explain the rationale for having the unit prepared to respond. (A-3)

### **PSYCHOMOTOR OBJECTIVES**

No psychomotor objectives identified.

### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 1 hour

### **NOTE**

If it is necessary to cover the Alaska Blue Light laws, they should be taught in a separate continuing education module or the course should be lengthened to accommodate the additional information.

# **MODULE 7**

## **Operations**

### **Lesson 7-2**

#### **Gaining Access**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 7-2.1 Describe the purpose of extrication. (C-1)
- 7-2.2 Discuss the role of the EMT-I in extrication. (C-1)
- 7-2.3 Identify what equipment for personal safety is required for the EMT-I. (C-1)
- 7-2.4 Define the fundamental components of extrication. (C-1)
- 7-2.5 State the steps that should be taken to protect the patient during extrication. (C-1)
- 7-2.6 Evaluate various methods of gaining access to the patient. (C-3)
- 7-2.7 Distinguish between simple and complex access. (C-3)

##### **AFFECTIVE OBJECTIVES**

No affective objectives identified.

##### **PSYCHOMOTOR OBJECTIVES**

No psychomotor objectives identified.

##### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 1 hour

# MODULE 7

## Operations

### Lesson 7-3

#### Overviews

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 7-3.1 Explain the EMT-I's role during a call involving hazardous materials. (C-1)
- 7-3.2 Describe what the EMT-I should do if there is reason to believe that there is a hazard at the scene. (C-1)
- 7-3.3 Describe the actions that an EMT-I should take to ensure bystander safety. (C-1)
- 7-3.4 State the role the EMT-I should perform until appropriately trained personnel arrive at the scene of a hazardous materials situation. (C-1)
- 7-3.5 Break down the steps to approaching a hazardous situation. (C-1)
- 7-3.6 Discuss the various environmental hazards that affect EMS. (C-1)
- 7-3.7 Describe the criteria for a multiple-casualty situation. (C-1)
- 7-3.8 Evaluate the role of the EMT-I in the multiple-casualty situation. (C-3)
- 7-3.9 Summarize the components of basic triage. (C-1)
- 7-3.10 Define the role of the EMT-I in a disaster operation. (C-1)
- 7-3.11 Describe basic concepts of incident management. (C-1)
- 7-3.12 Explain the methods for preventing contamination of self, equipment and facilities. (C-1)
- 7-3.13 Review the local mass casualty incident plan. (C-1)

##### **AFFECTIVE OBJECTIVES**

No affective objectives identified.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 7-3.14 Given a scenario of a mass casualty incident, perform triage. (P-2)

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 7-3.15 *Describe the purpose of the NIIMS Incident Command System. (C-1)*

Recommended time: 2 hours

# **MODULE 7**

## **Operations**

### **Lesson 7-4**

#### **Evaluation: Operations**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

7-4.1 Demonstrate knowledge of the cognitive objectives in Module 7: Operations.

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

7-4.2 Demonstrate knowledge of the affective objectives in Module 7: Operations.

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

7-4.3 Demonstrate knowledge of the psychomotor objectives in Module 7: Operations.

##### **ALASKA SPECIFIC OBJECTIVES**

7-4.4 Demonstrate knowledge of the Alaska specific objectives in Module 7: Operations.

Recommended time: 1 hour

# MODULE 8

## Advanced Airway (Elective)

### Lesson 8-1

#### Advanced Airway (elective)

##### **COGNITIVE OBJECTIVES**

At the end of this lesson the EMT-I student will be able to:

- 8-1.1 Identify and describe the airway anatomy in the infant, child and the adult. (C-1)
- 8-1.2 Differentiate between the airway anatomy in the infant, child, and the adult. (C-1)
- 8-1.3 Explain the pathophysiology of airway compromise. (C-1)
- 8-1.4 Describe the proper use of airway adjuncts. (C-1)
- 8-1.5 Review the use of oxygen therapy in airway management. (C-1)
- 8-1.6 Describe the indications, contraindications, and technique for insertion of nasal gastric tubes. (C-1)
- 8-1.7 Describe how to perform the Sellick maneuver (cricoid pressure). (C-1)
- 8-1.8 Describe the indications for advanced airway management. (C-1)
- 8-1.9 List the equipment required for orotracheal intubation. (C-1)
- 8-1.10 Describe the proper use of the curved blade for orotracheal intubation. (C-1)
- 8-1.11 Describe the proper use of the straight blade for orotracheal intubation. (C-1)
- 8-1.12 State the reasons for and proper use of the stylet in orotracheal intubation. (C-1)
- 8-1.13 Describe the methods of choosing the appropriate size endotracheal tube in an adult patient. (C-1)
- 8-1.14 State the formula for sizing an infant or child endotracheal tube. (C-1)
- 8-1.15 List complications associated with advanced airway management. (C-1)
- 8-1.16 Define the various alternative methods for sizing the infant and child endotracheal tube. (C-1)
- 8-1.17 Describe the skill of orotracheal intubation in the adult patient. (C-1)
- 8-1.18 Describe the skill of orotracheal intubation in the infant and child patient. (C-1)
- 8-1.19 Describe the skill of confirming endotracheal tube placement in the adult, infant and child patient. (C-1)
- 8-1.20 State the consequence of and the need to recognize unintentional esophageal intubation. (C-1)
- 8-1.21 Describe the skill of securing the endotracheal tube in the adult, infant and child patient. (C-1)

##### **AFFECTIVE OBJECTIVES**

At the end of this lesson the EMT-I student will be able to:

- 8-1.22 Recognize and respect the feelings of the patient and family during advanced airway procedures. (A-1)
- 8-1.23 Explain the value of performing advanced airway procedures. (A-2)
- 8-1.24 Defend the need for the EMT-I to perform advanced airway procedures. (A-3)
- 8-1.25 Explain the rationale for the use of a stylet. (A-2)
- 8-1.26 Explain the rationale for having a suction unit immediately available during intubation attempts. (A-2)

- 8-1.27 Explain the rationale for confirming breath sounds. (A-2)
- 8-1.28 Explain the rationale for securing the endotracheal tube. (A-3)

### **PSYCHOMOTOR OBJECTIVES**

At the end of this lesson the EMT-I student will be able to:

- 8-1.29 Demonstrate how to perform the Sellick maneuver (cricoid pressure). (P-1, 2)
- 8-1.30 Demonstrate the skill of orotracheal intubation in the adult patient. (P-1, 2)
- 8-1.31 Demonstrate the skill of orotracheal intubation in the infant and child patient. (P-1, 2)
- 8-1.32 Demonstrate the skill of confirming endotracheal tube placement in the adult patient. (P-1, 2)
- 8-1.33 Demonstrate the skill of confirming endotracheal tube placement in the infant and child patient. (P-1, 2)
- 8-1.34 Demonstrate the skill of securing the endotracheal tube in the adult patient. (P-1,2)
- 8-1.35 Demonstrate the skill of securing the endotracheal tube in the infant and child patient. (P-1, 2)

### **ALASKA SPECIFIC OBJECTIVES**

No Alaska specific objectives identified.

Recommended time: 12 Hours

## **MODULE 8**

### **Advanced Airway (Elective)**

#### **Lesson 8-2**

#### **Practical Lab: Advanced Airway (elective)**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

8-2.1 Demonstrate the cognitive objectives of Module 8: Advanced Airway (elective).

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

8-2.2 Demonstrate the affective objectives of Module 8: Advanced Airway (elective).

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

8-2.3 Demonstrate the psychomotor objectives of Module 8: Advanced Airway (elective).

##### **ALASKA SPECIFIC OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

No Alaska specific objectives identified.

Recommended time: 4 hours

## **MODULE 8**

### **Advanced Airway (Elective)**

#### **Lesson 8-3**

#### **Evaluation: Advanced Airway (elective)**

##### **COGNITIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 8-3.1 Demonstrate knowledge of the cognitive objectives in Module 8: Advanced Airway (elective).

##### **AFFECTIVE OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 8-3.2 Demonstrate knowledge of the affective objectives in Module 8: Advanced Airway (elective).

##### **PSYCHOMOTOR OBJECTIVES**

At the completion of this lesson, the EMT-I student will be able to:

- 8-3.3 Demonstrate knowledge of the psychomotor objectives in Module 8: Advanced Airway (elective).

##### **ALASKA SPECIFIC OBJECTIVES**

- 8-3.4 Demonstrate knowledge of the Alaska specific objectives in Module 8: Advanced Airway (elective).

Recommended time: 1 hour